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Waste Site Reclassification Form

Date Submitted: 7/30/1999	**Operable Unit(s):** 200-MW-1	**Control Number:** 99-047
Originator: B. H. Ford	**Waste Site ID:** 216-B-56	
Phone: 372-9176	**Type of Reclassification Action:** Rejected (◉) Closed-Out (○) No Action (○)	

This form documents agreement among the parties listed below authorizing classification of the subject unit as rejected, closed-out, or no action and authorizing backfill of the site, if appropriate. Final removal from the NPL of no action or closed-out sites will occur at a future date.

Description of current waste site condition:

The unit is a gravel-filled crib. The side slope is 1:1.5. The crib was constructed with 1.2 meters (4 feet) of 1.9 - 3.8 centimeter (0.75 - 1.5 inch) gravel at the bottom of the crib, followed by 0.4 meters (1.25 feet) of 0.64 to 1.3 centimeter (0.25 to 0.5 inch) gravel, followed by a membrane barrier covered by sand. The membrane barrier was placed over the gravel and 0.61 meters (2 feet) up the sides of the crib. The site was then backfilled. A perforated 10.2 centimeter (4 inch) vitrified clay pipe runs the length of the crib 0.9 meters (3 feet) above the bottom.

The pipeline connection to the unit was not installed. The pipe exits the ground south of the crib and extends vertically above grade approximately 0.9 meters (3 feet). The vertical pipe is labeled 'end of stub.'

The site is fenced with post and chain and labeled 'crib.' Well 299-E28-14 (Well id A6792) is located [illegible] corner.

Basis for reclassification:

Originally, the site was constructed to receive organic waste from 221-B (B-Plant). The pipeline connection to the site was never installed when disposal practices changed and organic waste disposal to the ground was stopped.

Historically, the site was included in WIDS, and is listed in TPA Appendix C. Thus, while the Evaluation checklist shows that it is "Not a Waste Management Unit," a Reclassification Form has been prepared.

BRIAN L. FOLEY	Brian L. Foley	1/26/00
DOE Project Manager	Signature	Date
Ecology Project Manager	Signature	Date
Douglas R. Sherwood	Douglas R. Sherwood	1/25/00
EPA Project Manager	Signature	Date

Waste Information Data System
General Summary Report

9/10/1999

Site Code: 216-B-56 **Site Classification:** Rejected (Proposed)

Site Names:	216-B-56		
Site Type:	Crib	**Start Date:**	
Status:	Inactive	**End Date:**	
Operable Unit:	200-MW-1	**Coordinates:**	
Hanford Area:	200E	(E) 0	
		(N) 0	
		Washington State Plane	

Site Description:

The unit is a gravel-filled crib. The side slope is 1:1.5. The crib was constructed with 1.2 meters (4 feet) of 1.9 - 3.8 centimeter (0.75 - 1.5 inch) gravel at the bottom of the crib, followed by 0.4 meters (1.25 feet) of 0.64 to 1.3 centimeter (0.25 to 0.5 inch) gravel, followed by a membrane barrier covered by sand. The membrane barrier was placed over the gravel and 0.61 meters (2 feet) up the sides of the crib. The site was then backfilled. A perforated 10.2 centimeter (4 inch) vitrified clay pipe runs the length of the crib 0.9 meters (3 feet) above the bottom.

The pipeline connection to the unit was not installed. The pipe exits the ground south of the crib and extends vertically above grade approximately 0.9 meters (3 feet). The vertical pipe is labeled 'end of stub.'

The site is fenced with post and chain and labeled 'crib.' Well 299-E28-14 (well id A6792) is located northwest of the crib's southwest corner.

Location Description:

The site is located in 200 East. It is northeast of the 221-B Building, north of 7th Street and south of 216-B-59 and 216-B-59B. Hanford coordinates listed for the crib are N42885, W52600, N42955, W52600.

Process Description:

Originally, the site was constructed to receive organic waste from 221-B (B-Plant). The pipeline connection to the site was never installed when disposal practices changed and organic waste disposal to the ground was stopped.

Associated Structures:

Within the crib structure, there are two 20.3 centimeter (8 inch) diameter liquid level gauge wells constructed of steel with galvanized metal caps. These wells are about 4.6 meters (15 feet) long and extend 0.9 meters (3 feet) above grade. These monitoring wells are located on each side of the pipe that runs the length of the crib. There is also a 10.2 centimeter (4 inch) vent pipe, 4.6 meters (15 feet) long rising from the north end of the distributor pipe and extending 1.2 meters (4 feet) above grade. The site was planned to be connected by a steel pipeline to 241-B-154 Diversion Box, but it never was.

The site was associated with 221-B (B-Plant).

Site Comment:

Lundgren (1970) is the source of information that the crib was not used. Other references trace back to the Lundgren reference.

Environmental Monitoring Description:

At one time this site was marked 'Underground Radioactive Material.' SD-RE-PRS-001, Annual Stabilization Progress Review and Status Report - Fiscal Year 1981 states that 'Following a radiological survey in May 1981, this crib was reposted to 'Underground Radioactive Material.'

DOE/RL-92-05, B Plant Source Aggregate Area Management Study Report, states 'The crib was surveyed and downposted due to cross-contamination from surrounding sites.'

Then, in the WIDS files, there is a mail message (April 8, 1992) from C. Webb stating that 'this site was never backfilled or stabilized, only reposted. It appears that in the 1970's all cribs were posted SURFACE CONTAMINATION as a conservative approach to posting until each crib could be separately radiologically characterized. Given this history, I think it would be appropriate to remove radiological posting from this site and label it only as CRIB 216-B-56. I think it can also be removed from the annual radiological surveillance schedule.'

In the field (July 29, 1999) the site is surrounded by post and chain and labeled 'CRIB.' There is no evidence that any stabilization has taken place.

The RARA program was asked for additional information. Their response was that 'this site was never used.' They didn't remember exactly when the posting was taken off but it has been around

five years. They confirmed the information that at one time all cribs were posted as 'Surface Contamination.'

References:

1. H. L. Maxfield, 4/1/79, Handbook - 200 Area Waste Sites (Volumes 1, 2 and 3), RHO-CD-673.
2. E. Doud, 7/31/64, 200 Areas Disposal Sites for Radioactive Liquid Wastes, HW-83718.
3. E. F. Curren, 5/72, 200 Areas Disposal Sites for Radioactive Liquid Wastes, ARH-947 R1.
4. J. D. Anderson, 5/14/74, Radioactive Liquid Wastes Discharged to Ground in the 200 Areas During 1973, ARH-2806 4Q.
5. J. A. Winterhalder, 11/30/81, Annual Stabilization Progress Review and Status Report - Fiscal Year 1981, SD-RE-PRS-001.
6. J.A. Bienerth, 8/5/93, WIDS Site Modification, sites 216-B-5, 216-B-56, 216-B-59, 216-B-59B, 216-B-9, 241-B-154, 241-B-302-B, 241-B-361, UPR-200-E-7, UPR-200-E-45.
7. S.M. McKinney, 12/06/94, Status of Outdoor Radiological Contamination at the Hanford Site, WHC-SP-1149.
8. 3/93, B Plant Source Aggregate Area Management Study Report, DOE/RL-92-05, Rev 0.
9. Lundgren, L.L., 1/1/1970, 200 East and North Areas Radioactive Liquid Waste Disposal Sites, ARH-1562.
10. 12/16/64, Organic Crib 216-B-56 Plan Profile Details - 4" Organic Waste Line, H-2-60329, Rev 2.
11. 10/29/63, Steam Condensate and Organic Cribs Plan And Profile, SK-2-19674.
12. K.A. Prosser, 6/30/99, Field Logbook, EL-1388-1.
13. Christine R. Webb, 4/10/92, 216-B-56 Crib.
14. Linda A. Dietz, William L. Osborne, 8/2/99, 216-B-56 - Mail Message from L. Dietz to W. Osborne.
15. W. M. Hayward, D. L. Smith, 11/18/92, Surveillance and Maintenance Summary.

Dimensions:

Length:	21.34	Meters	70.00	Feet
Width:	3.05	Meters	10.00	Feet
Sq. Area:	65.03	sqMeters	700.00	sqFeet

References: 1. H. L. Maxfield, 4/1/79, Handbook - 200 Area Waste Sites (Volumes 1, 2 and 3), RHO-CD-673.

Length:	30.50	Meters	100.07	Feet
Width:	12.20	Meters	40.03	Feet
Sq. Area:	371.10	sqMeters	3,994.48	sqFeet

Site Shape: Rectangle

Comment: These values are for the fenced off area. The area was calculated by ArcInfo from the GPS survey data. The length and width were estimated using ArcView.

References: 1. K. A. Prosser, Electronic File Location - Global Positioning System (GPS) Jobs Log - \\bhi002\hgis-gps.

Regulatory Information:

Programmatic Responsibility

DOE Program: EM-40 **Confirmed By Program:** Yes

DOE Division: RPD - Restoration Projects Division

Responsible Contractor/Subcontractor: BHI - Bechtel Hanford, Inc.

Site Evaluation

Solid Waste Management Unit: No

TPA Waste Management Unit Type:

Permitting

RCRA Part A Permit:	No	216/218 Permit:	No
RCRA Part B Permit:	No	NPDES:	No
Closure Plan:	No	State Waste Discharge Permit:	No
TSD Number:		Septic Permit:	No
Air Operating Permit:	No	Inert Landfill:	No

Air Operating Permit Number(s):

Tri-Party Agreement

Lead Regulatory Agency: EPA
Unit Category: CERCLA Past Practice (CPP)
TPA Appendix: C

Remediation and Closure

Decision Document:
Decision Document Status:
Remediation Design Group:
Closure Document:
Closure Type:

Post Closure Requirements:

Residual Waste:

Waste Information:

Type: Process Effluent
Category: Mixed
Physical State: Liquid

Description: Per references, the site was never used.
References: 1. Lundgren, L.L., 1/1/1970, 200 East and North Areas Radioactive Liquid Waste Disposal Sites, ARH-1562.

Field Work:

Type: Site Walkdown
Begin Date: 07/26/1999
End Date: 07/26/1999
Purpose: Evaluate Current Site Conditions

Site Cover:	Bare Soil		
Site Accessible:	Yes	Site Found:	Yes
Soil Discoloration:	No	Debris Visible:	Yes
Vegetation Type:	Rabbitbrush		
Soil Color:	Yellow		
Soil Texture:	Sand (>50%)		

Comment: The site does not appear to have been stabilized. It is primarily sand with some gravel

-sized rocks. Vegetation is sparse; some grasses, rabbitbrush, and tumbleweeds exist in the area. There is some wood debris on the crib's surface. The area around the site is sandy/gravelly with moderate vegetation (rabbitbrush, grasses and tumbleweeds).

References: 1. K.A. Prosser, 6/30/99, Field Logbook, EL-1388-1.

Type: GPS Surveys

Begin Date: 07/26/1999 **Field Crew:** K.A. Prosser

End Date: 07/26/1999 **Data Repository:** HGIS

Purpose: Confirm Site Location

Comment: The reference for this task is an electronic file found under \\BHI002\hgis-gps\job-272. The post and chain were GPS surveyed.

Job Number: 272

Type: Real-Time Kinematic

References: 1. K. A. Prosser, Electronic File Location - Global Positioning System (GPS) Jobs Log - \\bhi002\hgis-gps.

Type: Radiation Survey

Begin Date: 04/14/1992 **Field Crew:** W. Clifford

End Date: 04/14/1992

Purpose: Survey Crib Above/Below Grade

Comment: Surface readings were taken at seven random locations within the boundary of the crib.No readings were above background (500 disintegrations per minute). Then at each of the seven locations a hole was dug that was approximately 30.5 centimeters (12 inches) below grade. Readings were taken in each hole. Readings did not differ from surface and background readings (approximately 500 disintegrations per minute).

Radiation Survey Identification: 119137

Instrument: GM/P-11 Probe (15.5 sq cm) (Beta-Gamma)

Location Description: Check miscellaneous equipment. All readings were less than detectable.

Radiation Survey Identification: 119137

Instrument: GM/P-11 Probe (15.5 sq cm) (Beta-Gamma)

Location Description: Check personnel. All readings were less than detectable.

Radiation Survey Identification: 119137

Instrument: GM/P-11 Probe (15.5 sq cm) (Beta-Gamma)

Location Description: Determine maximum readings below grade.

Max Value: 500

Max Value Units: Disintegrations Per Minute (d/m)

Radiation Survey Identification: 119137

Instrument: GM/P-11 Probe (15.5 sq cm) (Beta-Gamma)

Location Description: Determine maximum readings at grade level.

Max Value: 500

Max Value Units: Disintegrations Per Minute (d/m)

Radiation Survey Identification:	119137
Instrument:	GM/P-11 Probe (15.5 sq cm) (Beta-Gamma)
Location Description:	Determine average background reading.
Max Value:	500
Max Value Units:	Disintegrations Per Minute (d/m)
Radiation Survey Identification:	119137
Instrument:	GM/P-11 Probe (15.5 sq cm) (Beta-Gamma)
Location Description:	Survey the general area (direct reading). Readings were less than 0.5 millirad per hour.
Max Value:	0.5
Max Value Units:	Millirad Per Hour (mr/hr)

References: 1. W. Clifford, 4/14/92, Radiation Survey Report - 216-B-56, 119137.

Images:

Date Taken:	7/26/99
Pathname:	\\bhi002\esd-img\200E\0438\0438_01.JPG
Description:	This photo was taken looking north towards 216-B-59. The pipe in the foreground (which lies south of the crib) is labeled "End of stub."
Date Taken:	7/26/99
Pathname:	\\bhi002\esd-img\200E\0438\0438_02.JPG
Description:	This photo was taken looking south from the north end of the crib. Rattlesnake Mountain and the 200E powerhouse are in the distance. The three risers run down the middle of the photo. Well 299-E28-14 is to the right.